ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

October 20, 1992

Gerry Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results of the analyses of the samples submitted on September 28, 1992 from Project 7238, City Water Quality, PO #M26136.

We appreciate this opportunity to be of service to you on this project. If you have any questions regarding this material, or if you just want to discuss any aspect of your projects, please do not hesitate to contact me.

Sincerely,

Mark Z Perin

Chemist

MZP/dp

Enclosures

ENVIRONMENTAL CHEMISTS

Date of Report: October 20, 1992 Date Submitted: September 28, 1992 Project: 7238, City Water Quality, PO #M26136

RESULTS OF ANALYSES OF THE WATER SAMPLE FOR ANIONS BY ION CHROMATOGRAPHY Results Reported as mg/L (ppm)

Sample #			M26136
Analyte:			
Fluoride			1
Chloride			12
Nitrite			<1
Nitrate			<1
Phosphate			<1
Sulfate			5

ENVIRONMENTAL CHEMISTS

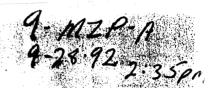
Date of Report: October 20, 1992 Date Submitted: September 28, 1992 Project: 7238, City Water Quality, PO #M26136

RESULTS OF ANALYSES OF THE WATER SAMPLE FOR ANIONS BY ION CHROMATOGRAPHY Results Reported as mg/L (ppm)

Sample #	Method Blank	M26136 Duplicate
Analyte:		
Fluroide	<0.5	1
Chloride		11
Nitrite	() : () : () : () : () : () : () : () :	<1
Nitrate		<1
Phosphate	<1	<1
Sulfate	<1	5

FRIEDMAN & BRUYA, INC. 3008-B 16th Avenue West Scande, WA 98119

SAMPLE CHAIN OF CUSTODY



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Date of Report: October 20, 1992

Date Submitted: September 28, 1992 Project: 7238, City Water Quality, PO #M26136

RESULTS OF ANALYSES OF THE WATER SAMPLE FOR ANIONS BY ION CHROMATOGRAPHY Results Reported as mg/L (ppm) Ouality Assurance

Sample #	M26136 <u>Matrix Spike</u> % Recovery	M26136 <u>Matrix Spike Duplicate</u> % Recovery	Spike <u>Level</u> (ppm)
Analyte:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Fluoride	120%	104%	5
Chloride	ai	ai (5
Nitrite	124%	108%	5
Nitrate	a		\5
Phosphate	a		5
Sulfate	134%	106%	5

a - Nitrate and phosphate coeluted.

ai - The amount spiked was insufficient to give meaningful recovery data.

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INVOICE #92ACU1020-1

October 20, 1992

Accounts Payable Alaskan Copper P.O. Box 3546 Seattle, WA 98124

Re: Billing for the analyses of the environmental samples submitted on September 28, 1992 from Project 7238, City Water Quality, PO #M26136 and reported to Gerry Thompson, Project Leader.

OK TO PROCESS

QHM

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

DUPLICATE COPY

INVOICE #92ACU1020-1

October 20, 1992

Accounts Payable Alaskan Copper P.O. Box 3546 Seattle, WA 98124

Re: Billing for the analyses of the environmental samples submitted on September 28, 1992 from Project 7238, City Water Quality, PO #M26136 and reported to Gerry Thompson, Project Leader.

1 water sample analyzed for Anions by Ion	
Chromatography @ \$75 per sample	\$ 75.00
No Charge	(75.00)
Amount Due	\$ 0.00